

Technical Services facts

Flight Cable Manufacturing

The White Sands Test Facility (WSTF) Technical Services Office has the expertise, experience, and infrastructure to design, fabricate, and test flight hardware and ground support equipment with the highest regard for safety and customer satisfaction. The WSTF Flight Cable Manufacturing Facility (FCMF) is a new capability in the Technical Services Office. The initial goal of the FCMF is fabricating flight-qualified electrical cables and cable harness assemblies.

Cable Fabrication and Hardware Refurbishment

WSTF has accumulated considerable experience in building and refurbishing flight-qualified cables and components, including development of required processes and procedures. Typical activities include:

- Design, build, and test of cables for the International Space Station (ISS) Oxygen Recharge Compressor Assembly (ORCA)
- Repair and replacement of cables and connector components of Space Shuttle Orbital Maneuvering System (OMS) thrusters
- Replacement of connectors on Space Shuttle Primary Reaction Control System (PRCS) and Vernier Reaction Control System (VRCS) thrusters

Process Development and Control

WSTF's ISO 9001-based management system ensures that products and processes conform to specified requirements. In line with ISO requirements, WSTF is equipped with the expertise to analyze requirements and effectively document new processes when needed.

Infrastructure

WSTF's infrastructure supports the fabrication of flight hardware for both day-to-day operations and off-nominal situations. On site resources include:

- Technicians and trainers certified to NASA Standard 8739
- NIST-traceable electrical and mechanical calibration
- Professional publication/photo/video support
- Bonded storage of flight hardware
- Procurement and logistics
- NASA and contractor quality organizations

